



AQUACULTURE



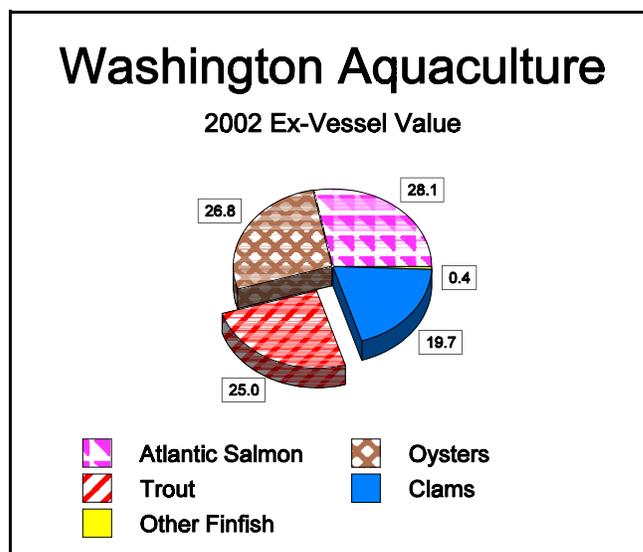
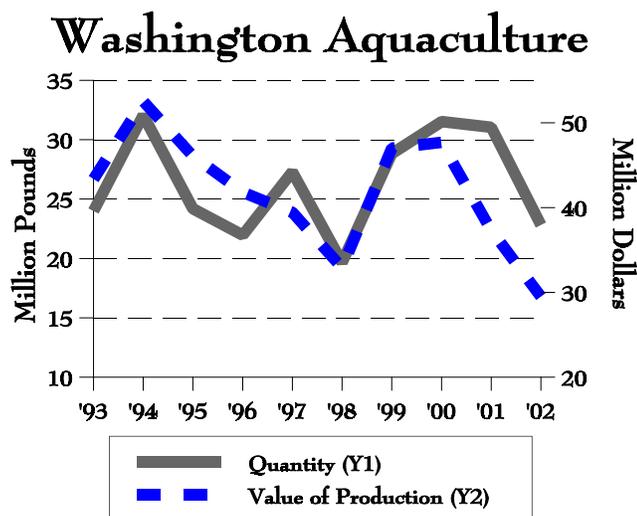
Aquaculture is the cultivation of sea animals and plants in a controlled marine environment. Washington aquaculture consists mainly of penned salmon, trout, clams, and oysters. Other items being farmed include sturgeon, char, catfish, bass, carp, scallops, mussels, clam seed, and seaweed.

The preliminary total value of aquaculture for 2002 in Washington was \$21.7 million, a decrease of 47 percent from the 2001 value of \$40.7 million. Atlantic salmon and Pacific oysters are the major components of Washington's total aquaculture value, contributing \$15.5 million in 2002, or 72 percent of the total value of aquaculture. The 2002 value for total fish was \$16.3 million, a decrease of 32 percent from the previous year.

Clams contributed \$5.8 million in 2002, and averaged \$1.22 per pound. The total value for clams in 2002 decreased 33 percent from the value in 2001. Manila clams are the most popular type of clam harvested and account for 51 percent of the total value of clams sold in 2002. Mussels decreased in value from \$2.4 million in 2001 to \$1.0 million in 2002.

Oysters were valued at \$7.4 million, a decrease of \$9.3 million from 2001. Total pounds of oysters harvested decreased by 43 percent to 4.1 million pounds. The price per pound decreased from \$2.31 per pound in 2001 to \$1.79 per pound in 2002. Pacific oysters are by far the dominant type of oyster produced in Washington, accounting for 98 percent of the total value of oysters in the state.

The aquaculture information on the following two pages were compiled by the Washington State Department of Fish and Wildlife. Trout estimates presented on the previous two pages were made by the USDA's National Agricultural Statistics Service based on a separate survey. Data presented in the "Top Forty Commodities" for aquaculture exclude trout values from the Department of Fish and Wildlife to avoid duplication with USDA's data.



Aquaculture: Production & Value, Washington, 1993-2002

Year/Specie	Production				Ex-Vessel Value			
	Market	Juvenile	Eggs	Total	Market	Juvenile	Eggs	Total
Pacific Salmon 1/	1,000 Pounds				\$1,000			
1993	90	1	5	96	167	4	278	449
1994	84	19	9	112	152	114	749	1,015
1995	69	24	7	100	205	113	523	841
1996	72	8	7	87	244	20	556	820
1997	51	0	4	55	125	0	66	191
1998	35	9	3	47	86	23	532	642
1999	6	46	5	57	10	120	842	971
2000	0	0	3	3	0	0	449	449
2001	0	0	2	2	0	0	299	299
2002	0	0	0	0	0	0	0	0
Trout								
1993	444	30	65	539	936	79	936	3,262
1994	324	11	79	414	633	33	633	1,299
1995	472	22	86	580	859	100	4,590	5,549
1996	811	21	85	917	1365	97	4,922	6,384
1997	1,567	22	70	1,658	2,380	74	3,540	5,994
1998	1,331	63	65	1,459	1,992	189	3,906	6,087
1999	2,563	68	60	2,691	2,887	327	3,802	7,016
2000	2,647	40	56	2,742	3,150	241	3,121	6,511
2001	3,572	37	78	3,687	3,993	286	4,323	8,602
2002	4,106	42	56	4,204	4,221	288	3,352	7,861
Atlantic Salmon								
1993	8,837	72	1	8,910	22,375	638	290	23,303
1994	10,557	91	1	10,649	25,101	419	92	25,612
1995	8,922	90	2	9,014	18,684	860	297	19,841
1996	8,636	43	0	8,679	14,706	320	112	15,138
1997	12,729	22	1	12,752	15,444	294	142	15,880
1998	5,663	57	1	5,721	7,839	431	310	8,580
1999	12,123	28	1	12,152	18,570	221	275	19,066
2000	13,323	13	0	13,336	20,260	116	8	20,384
2001	16,681	12	3	16,697	13,808	120	760	14,688
2002	9,631	0	0	9,631	8,306	0	0	8,306
Other Finfish 2/								
1993	2	0	0	2	5	0	0	5
1994	3	0	0	3	8	0	0	8
1995	3	0	0	3	6	0	0	6
1996	3	0	0	3	9	0	0	9
1997	28	0	0	28	74	0	0	74
1998	95	0	0	95	198	0	0	199
1999	134	0	0	134	309	0	0	309
2000	144	0	0	144	290	0	0	290
2001	153	0	0	153	297	0	0	297
2002	75	0	0	75	143	0	0	143
Total Fish								
1993	9,373	103	71	9,547	23,483	721	1,504	27,019
1994	10,968	121	89	11,178	25,894	566	1,474	27,934
1995	9,466	136	95	9,697	19,754	1,073	5,410	26,237
1996	9,522	72	92	9,686	16,324	437	5,590	22,351
1997	14,375	44	75	14,493	18,022	369	3,748	22,139
1998	7,124	129	70	7,322	10,116	644	4,748	15,508
1999	14,825	143	66	15,034	21,776	668	4,919	27,362
2000	16,114	53	59	16,226	23,700	357	3,577	27,634
2001	20,406	50	83	20,539	18,098	406	5,382	23,886
2002	13,812	42	56	13,911	12,670	288	3,352	16,310

See footnotes (page 111).

Aquaculture: Production and Value, Washington 1993-2002 3/

Year/ Specie	Production					Ex-Vessel Value				
	Littleneck	Manila	Mussels	Other	Total	Littleneck	Manila	Mussels	Other	Total
Clams	1,000 Pounds					\$1,000				
1993	254	6,065	703	113	7,135	215	4,572	524	157	5,468
1994	216	4,509	1,106	131	5,962	205	3,885	501	61	4,652
1995	311	5,234	995	53	6,593	214	5,013	321	29	5,577
1996	244	3,976	1,223	29	5,472	200	4,998	287	15	5,500
1997	212	5,325	1,376	29	6,942	178	5,242	242	16	5,679
1998	201	4,194	1,480	31	5,906	156	4,597	232	8	4,993
1999	113	4,672	1,659	28	6,473	113	3,730	231	17	4,091
2000	125	5,286	1,872	91	7,374	83	4,211	2,733	113	7,140
2001	140	5,998	1,662	483	8,283	105	5,395	2,393	773	8,666
2002	86	3,115	639	952	4,792	74	2,996	959	1,800	5,828

Year/ Specie	Production				Ex-Vessel Value			
	Olympia	Pacific	Other 4/	Total	Olympia	Pacific	Other 4/	Total
Oysters	1,000 Pounds				\$1,000			
1993	4	7,304	14	7,322	38	10,182	661	10,881
1994	25	14,891	7	14,923	58	19,436	451	19,945
1995	23	7,847	30	7,900	504	13,450	335	14,289
1996	7	6,728	16	6,751	145	13,277	541	13,963
1997	7	5,817	47	5,871	105	10,826	704	11,635
1998	4	6,383	50	6,436	85	11,754	557	12,397
1999	4	7,013	30	7,047	93	15,089	772	15,955
2000	4	7,961	22	7,987	101	16,227	310	16,638
2001	2	7,200	31	7,233	233	16,227	248	16,709
2002	2	4,080	32	4,114	49	7,238	92	7,379

Year	Production					Ex-Vessel Value				
	Total Fish	Total Clams	Total Oysters	Total Aqua.	Minus Trout	Total Fish	Total Clams	Total Oysters	Total Aqua.	Minus Trout
	1,000 Pounds					\$1,000				
1993	9,547	7,135	7,322	24,004	23,465	27,019	5,468	10,881	43,368	40,106
1994	11,178	5,962	14,923	32,063	31,649	27,934	4,652	19,945	52,531	51,232
1995	9,697	6,593	7,900	24,190	23,610	26,237	5,577	14,289	46,103	40,554
1996	9,686	5,472	6,805	21,963	21,046	22,351	5,500	13,963	41,814	35,430
1997	14,493	6,942	5,871	27,306	25,648	22,139	5,679	11,635	39,453	33,465
1998	7,322	5,906	6,436	19,665	18,205	15,508	4,993	12,397	32,898	26,811
1999	15,034	6,473	7,324	28,831	26,140	27,362	4,091	15,547	47,000	39,984
2000	16,210	7,335	7,987	31,532	28,804	27,384	4,453	15,832	47,669	41,183
2001	18,000	5,830	7,219	31,049	28,189	20,037	4,130	13,159	37,326	30,541
2002	13,911	4,792	4,114	22,817	18,612	16,310	5,828	7,379	29,516	21,656

1/ Includes Chinook and Coho.

2/ Includes char, catfish, and bass.

3/ Totals may not add due to rounding.

4/ Oyster seed in value only.